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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/740,698	12/19/2003	Sign Erickson Varner	56086 (71699)	3885
49383 7590 08/18/2010 EDWARDS ANGELL PALMER & DODGE LLP P.O. BOX 55874 POSTON, MA 02205			EXAMINER	
			MEHTA, BHISMA	
BOSTON, MA 02205			ART UNIT	PAPER NUMBER
			3767	
			MAIL DATE	DELIVERY MODE
			08/18/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/740,698	VARNER ET AL.				
Office Action Summary	Examiner	Art Unit				
	BHISMA MEHTA	3767				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>22 Ju</u>	ne 2010					
	action is non-final.					
<u> </u>	,—					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
• 4)⊠ Claim(s) <u>68-74,76-119,122-127,129 and 132-138</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>68-74,76-119,122-127,129 and 132-138</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 22, 2010 has been entered.

Specification

2. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The specification fails to disclose the body member comprising a tube provided in a coil or zig-zag shape along it entire length from its proximal end to its distal end.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 68-74, 76-91, 93-97, 99-109, 111-119, 122-127, 129, and 132-138 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weiner et al (U.S. Patent No. 5,466,233) in view of Rosenman et al (U.S. Patent No. 6,478,776).

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Weiner et al disclose an implantable ocular drug delivery device (10) having a non-linear shaped body member (12, 14a) comprising a tube and that is implanted within a patient eye to deliver a drug substance to the patient via the body member and a cap element (16) (see Figures 1-5). The cap element is at the proximal end of the body member as see in Figure 1 and is sized to provide a cross-section larger than the cross-section of the non-linear body member such that the cap element abuts an incision through which the device is inserted to stabilize the device. In lines 1-11 of column 8. Weiner et al disclose the body member being positioned within the vitreous fluid. The device is insertable through an incision approximately the same size as the outer diameter of the tube forming the body member (see Figure 14). The tube has a cross-sectional diameter approximately equal to that of an incision through which the device is being inserted (see Figure 14). With respect to claims 69-71, the device body member comprises at least five deviations from a linear path as seen by the multiple surfaces of the body member. The cap element is seen to be capable of being in contact with a patient eye outer surface when the body member is inserted into the eye. The cap element mates the body member at a proximal end of the device as seen in Figure 1. The cap element is in contact with the body member. With respect to claim 76, Weiner et al disclose the device comprising a therapeutic agent for delivery to the patient during use of the device (line 33 of column 10 to line 27 of column 11). With

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respect to claims 77 and 78, Weiner et al disclose the device body comprising a polymer that comprises a therapeutic substance that can be delivered to the patient eye (lines 28-67 of column 8). With respect to claims 83-86 and 100-102, Weiner et al disclose a method of treating a patient comprising delivering a delivery device comprising a non-linear shaped body member (12, 14a) comprising a tube having at least five deviations from a linear path and a cap element (16) at a proximal end, inserting the device into a patient's eye through an incision, the incision being approximately the same size as the outer diameter of the tube forming the body member, whereby the body member resides in the vitreous fluid of the patient's eye and the cap element remains outside the incision through which the device is inserted and abuts the outer surface of the eye to stabilize the device, and allowing a therapeutic agent to be administered to the patient via the body member. The cap element is seen to remain outside of and abut the incision as seen in Figure 14 where the device of Figure 1 is inserted into a patient eye such that the body member resides in the patient eye. With respect to claim 89 and 105, see line 33 of column 10 to line 27 of column 11. With respect to claims 90, 91, 106, and 107, the body member comprises a polymer and comprises a therapeutic substance that can be delivered to the patient eye (lines 28-67 of column 8). With respect to claim 108, the cap element is in contact with the outer surface of the patient eye. With respect to claim 109, the device is inserted by screwing the device into the eye. With respect to claim 116, Weiner et al disclose an implantable ocular drug delivery device having a non-linear shaped body member (12, 14a) that is implanted within a patient eye during use of the device to deliver a drug

substance to the patient eye via the body member and a cap element (16) (see Figure 1). The cap element is sized to prevent the cap element from passing through an incision through which the device is inserted and the cap element is configured to mate against the patient eye outer surface while the body member is inserted to the eye. The device is implantable within the vitreous fluid of a patient eye. With respect to claim 117, the incision comprises a sclerotomy. With respect to claim 118, the device is implanted in a minimally invasive surgical procedure. With respect to claim 119, the device is implanted at the pars plana (lines 29-50 of column 5 and line 24 of column 14 to line 5 of column 16). With respect to claims 122-127 and 132-137, see line 46 of column 8 to line 52 of column 9 and line 65 of column 9 to line 32 of column 10. With respect to claim 138, the tube has a circular cross-section.

Weiner et al disclose the implantable drug delivery device substantially as claimed. With respect to claim 68-73, even though Weiner et al disclose a non-linear shaped body member comprising a tube, Weiner et al are silent on the specifics of the tube of the body member comprising provided in a coil or zig-zag shape along its entire length from its proximal end to its distal end. Rosenman et al disclose a delivery device having a non linear shaped body member (12) comprising a tube provided in a coil or zig-zag shape along its entire length from its proximal end to its distal end that is implanted within a patient and a cap element (56) which abuts an incision through which the device is inserted to stabilize the device (see Figures 9-12, 14, 15, 17-19). The device is insertable through an incision approximately the same size as the outer diameter of the tube forming the body member (see lines 62-67 of column 10 and lines

16-26 of column 11). The device body member comprises at least five deviations from a linear path as seen in Figures 18 and 19. The device body member comprises a helical shape or a substantially Z-shape as seen in Figures 18 and 19. Rosenman et al. disclose implanting the device within the heart and other organs of the body which can include the eye (lines 8-28 of column 16). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the tube forming the body member of Weiner et al with a coil or zig-zag shape along its entire length from its proximal end to its distal end as taught by Rosenman et al as both Weiner et al and Rosenman et al disclose an implantable device for controlled drug release which is secured in a patient's body (Weiner et al: lines 26-48 of column 3 and lines 1-27 of column 8, Rosenman et al: lines 40-59 of column 5 and lines 16-67 of column 11) and Rosenman et al disclose that it is well known to provide an implantable device having a non linear shaped body member comprising a tube provided in coil or zig-zag shape along its entire length from its proximal end to its distal end to allow for proper positioning and securement of the device in the desired location in a patient's body where the device will provide controlled drug release. Since the device of Rosenman et al is insertable through an incision approximately the same size as the outer diameter of the tube forming the body member, providing the tube forming the body member of Weiner et al with a coil or zig-zag shape would result in the device of Weiner et al being insertable through an incision approximately the same size as the outer diameter of the tube forming the body member.

Weiner et al disclose the drug delivery device substantially as claimed. With

respect to claims 79 and 129, Weiner et al disclose an implantable ocular drug delivery device (10) having a non-linear shaped body member (12, 14a) comprising a tube or post (12) and an anchoring region (14a). However, Weiner et al are silent on the specifics of the body member comprising a tube wound into a coil shape. Rosenman et al disclose an implantable drug delivery device having a body member (12) comprising a tube wound in a coil or shape as seen in Figures 9-12, 14, 15, 17-19. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the tube or post of Weiner et al wound into a coil shape as taught by Rosenman et al as both Weiner et al and Rosenman et al disclose sustained release of a drug through an implantable device and Rosenman et al disclose that it is well known to provide an implantable device with a coil or zig-zag shape because the coil or helically shaped body member allows for the drug to be released in all directions when the device is implanted into the desired location (lines 21-36 of column 10). Since the device of Rosenman et al is insertable through an incision approximately the same size as the outer diameter of the tube forming the body member, providing the tube forming the body member of Weiner et al with a coil or zig-zag shape would result in the device of Weiner et al being insertable through an incision approximately the same size as the outer diameter of the tube forming the body member.

Weiner et al disclose the method and device substantially as claimed. With respect to claims 83-88 and 111, Weiner et al disclose an implantable ocular drug delivery device (10) having a non-linear shaped body member (12, 14a) comprising a tube or post (12) and an anchoring region (14a). Even though Weiner et al disclose a

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non-linear shaped body member comprising a tube, Weiner et al are silent on the specifics of the tube of the body member comprising a coil or zig-zag shape or being wound into a coil shape. Rosenman et al disclose a delivery device having a non linear shaped body member (12) comprising a tube provided or wound in a coil or zig-zag shape that is implanted within a patient and a cap element (56) which abuts an incision through which the device is inserted to stabilize the device (see Figures 9-12, 14, 15, 17-19). The device is insertable through an incision approximately the same size as the outer diameter of the tube forming the body member (see lines 62-67 of column 10 and lines 16-26 of column 11). The device body member comprises at least five deviations from a linear path as seen in Figures 18 and 19. The device body member comprises a helical shape or a substantially Z-shape as seen in Figures 18 and 19. Rosenman et al. disclose implanting the device within the heart and other organs of the body which can include the eye (lines 8-28 of column 16). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the tube or post of Weiner et al with a coil or zig-zag shape as taught by Rosenman et al as both Weiner et al and Rosenman et al disclose sustained release of a drug through an implantable

device and Rosenman et al disclose that it is well known to provide an implantable

desired location (lines 21-36 of column 10). Since the device of Rosenman et al is

device with a coil or zig-zag shape because the coil or helically shaped body member

allows for the drug to be released in all directions when the device is implanted into the

insertable through an incision approximately the same size as the outer diameter of the

tube forming the body member, providing the tube forming the body member of Weiner

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et al with a coil or zig-zag shape would result in the device of Weiner et al being insertable through an incision approximately the same size as the outer diameter of the tube forming the body member.

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As to claims 93-97, 99-109, and 116, Weiner et al disclose the device and method substantially as claimed. Weiner et al disclose an implantable ocular drug delivery device (10) having a non-linear shaped body member (12, 14a) comprising a tube or post (12) and an anchoring region (14a). However, Weiner et al are silent on the specifics of the body member being coil-shaped or zig-zag shaped where the device is inserted through an incision smaller than the cross-section of the coil-shaped body member. Rosenman et al disclose an implantable drug delivery device having a coilshaped or zig-zag shaped body member as seen in Figures 9-12, 14, 15, 17-19 where the device is inserted through an incision smaller than the cross-section of the coilshaped or zig-zag shaped body member (see lines 62-67 of column 10 and lines 16-26 of column 11). The device body member comprises a helical shape or a substantially Zshape as seen in Figures 18 and 19. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the tube or post of Weiner et al with a coil shape or zig-zag shape as taught by Rosenman et al as both Weiner et al and Rosenman et al disclose sustained release of a drug through an implantable device and Rosenman et al disclose that it is well known to provide an implantable device with a coil or zig-zag shape because the coil or helically shaped body member allows for the drug to be released in all directions when the device is implanted into the desired location (lines 21-36 of column 10). Since the cap element of Application/Control Number: 10/740,698 Page 10

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Weiner et al is sized to provide a cross-section larger than the cross-section of the non-linear body member, providing the body member of Weiner et al with a coil shape would result in the cap element of Weiner et al being sized to provide a cross-section larger than the cross-section of the coil-shaped body member.

5. Claims 92, 98, and 110 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weiner et al in view of Rosenman et al as applied to claims 83, 93, and 99 above, and further in view of Johnson (U.S. Patent No. 5,972,027). Weiner et al and Rosenman et al disclose the method substantially as claimed. However, Weiner et al and Rosenman et al are silent on the specifics of the device comprising a shape memory material. Johnson discloses an implantable drug delivery device with a nonlinear body member that can be made of nitinol, a very well known shape memory alloy of nickel-titanium (lines 39-56 of column 2). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Weiner et al and Rosenman et al to make the device of a shape memory material as taught by Johnson as Johnson teaches that it is well known to make an implantable device from a shape memory material to provide a bio-compatible and strong device.

Response to Arguments

6. Applicant's arguments with respect to claims 68-74, 76-119, 122-127, 129, and 132-138 have been considered but are moot in view of the new ground(s) of rejection.

With respect to claim 68, Applicant's arguments that there is no teaching, suggestion, or motivation by either Rosenman et al or Weiner et al for the tube to be

provided with a coil or zig-zag shape along its entire body length have been considered but are not deemed persuasive. Weiner et al disclose that the non-linear shaped body member (12, 14a) has a post (12) and an anchoring region (14a) and disclose that the anchoring region (14a) can be of any potential configuration that would enable the anchoring region (14a) to secure the device (10) in the eye (lines 2-11 of column 6). Weiner et al also disclose that the post (12) may have any configuration or shape or be made of varied materials as long as the post is capable of providing sustained, controlled delivery of the drugs (lines 3-11 of column 8). Rosenman et al disclose an implantable device having a coil or zig-zag shape along its entire length where the device is for controlled drug release and is secured in a patient's body (lines 40-59 of column 5 and lines 16-67 of column 11). Therefore, one would be motivated to provide the tube of Weiner et al with a coil or zig-zag shape along its entire body length as the coil or zig-zag shape would both provide an anchoring region equivalent to the anchoring region (14a) of Weiner et al and provide a post for sustained controlled drug release equivalent to the post (12) of Weiner et al.

With respect to claims 79, 83, 93, 99, 111, 116, and 129, Applicant's arguments that there is no teaching, suggestion, or motivation by either Rosenman et al or Weiner et al for the tube to be provided with a coil or zig-zag shape have been considered but are not deemed persuasive. Weiner et al disclose that the non-linear shaped body member (12, 14a) has a post (12) and an anchoring region (14a) and disclose that the post (12) may have any configuration or shape or be made of varied materials as long as the post is capable of providing sustained, controlled delivery of the drugs (lines 3-11)

of column 8). Rosenman et al disclose an implantable device for controlled drug release where the coil or helically shaped body member allows for the drug to be released in all directions when the device is implanted into the desired location (lines 21-36 of column 10) (lines 40-59 of column 5 and lines 16-67 of column 11). Therefore, one would be motivated to provide the post or tube of Weiner et al with a coil or zig-zag shape as the coil or zig-zag shape would allow for the drug to be released in all directions when the device is implanted into the desired location.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BHISMA MEHTA whose telephone number is (571)272-3383. The examiner can normally be reached on Monday through Friday, 7:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on 571-272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bhisma Mehta/ Examiner, Art Unit 3767